

## MINUTES

### Atmospheric Deposition Program NC-141 Technical Committee Meeting June 12-13, 1978

All participants attending the St. Louis meeting reviewed the status of their individual stations. Approximately 6 individuals had not received the rain samplers from Aerochem Metrics but that is being corrected.

Illinois Water Survey will be the Central Analytical Laboratory (CAL) for the NC-141 project. The NC-141 Technical Committee will define the responsibilities of the CAL. A letter of agreement will be signed by each participant with CAL concerning the payment of specific analytical costs. At this point it is believed that costs will not exceed \$50 per sample. These costs, however, have to be re-evaluated as the project continues to progress. The present cost estimates are based on roughly 3,120 samples per year. The CAL will start to process samples as of July 4, 1978.

It was agreed that subcommittee #5 should develop plans for effects research as a proposal to EPA. Recommendations on effects research is also needed by CEQ. Such recommendations are due by June 30, 1978. Persons interested may get a copy by request through Ellis Cowling. A meeting will occur in the later part of July between CEQ and the Committee which wrote the recommendations (Cowling, Galloway, Gorham and McFee).

EPA would be providing 20 dichotomous samplers to the NC-141 project. Persons interested in participating in this addition should contact Jim Galloway.

Curtis Jackson mentioned that he has sent a request to Ken Hood of EPA for \$125,000 to pay for analyses costs. No reply so far. Jackson also pointed out that the State Department has contracted a private firm to prepare a report on international effects of air pollution.

Doug Whelpdale from Canada discussed a proposal for across the board intercalibration involving the Canadian network and 3 NC-141 stations. He proposed that these 3 stations be co-sited across the border from the Canadian stations. It should be noted that the Canadian stations collect wet samples only on a monthly basis.

Doug Fox from USFS mentioned that funding is available for their 7 stations from July 1, 1978 to September 30, 1978 (end of their fiscal year).

The Executive Committee met at 8:00 p.m. on June 12, 1978 with the following people present: Cowling, Huston, Jackson, Gibson, Dochinger, Volchok, Bogen, McFee, Semonin, and Fox. Dr. Harris from Cooperative Research (CR) mentioned that the interagency Council for Environmental Quality (CEQ) document has been submitted for review. This document involves thrust on monitoring but not entirely acidic precipitation.

Discussion took place about more states and agencies participating in the project. It was unanimously agreed that National Park Service be admitted into the project. The Park Service is interested relative to the Great Smoky Mountains. Ellis Cowling suggested that visits be made to states not currently participating, to encourage them to join the project.

The Technical Committee met on June 13 and several subcommittees provided clarifications. Subcommittee #1 has reviewed all the site applications they have received so far and have provisionally certified all such sites for one year. These certifications will be handled by the subcommittee chairman.

Subcommittee #2. No answer has been received from Mr. Steve Gage of the EPA as to their exact role and participation in the NC-141. A letter was previously written to Mr. Gage requesting EPA participation,

particularly in the quality assurance program.

Gary Stensland who is the Director of the CAL outlined the functioning of the CAL. He pointed out that at least 6 sample containers should be maintained at each site. Jim Gibson will order this in bulk and have it delivered to CAL. CAL will bill each site for this. Six mailers will also be ordered for each site. The 6 containers will be adequate to handle the wet samples. There should be a sample from each site each week. Any deviations should be checked with the Technical Committee in writing through the project coordinator. Dry samples should be started in August with the following first Tuesdays of even months.

If there is less than 70 ml of sample, no pH or conductivity measurements should be made in the field. Sample should directly go to the CAL. All sites should have an accurate balance. Buckets weigh 1 kg. Weighing should be done to the nearest gram. A full bucket will weigh 14 kg. Ohaus triple beam balance is suggested (cost about \$200-300). Disposable pipettes and syringes should be used for taking samples for pH and conductivity measurements. Conductivity scale should be calibrated at 10 and 100  $\mu$ mohs. Sequence of measurements should involve conductivity first followed by the pH. No sample shall be removed from the bucket except for these two measurements.

Doug Fox reviewed reporting procedures. There will be a quarterly report from the project coordinator. This will contain raw data per each site, temporal analysis of each parameter and some spatial mapping. Some discussion occurred on a possible publication of an annual report or monograph. This will be discussed further at the next meeting.

Subcommittee #5 could not meet due to lack of enough members at the meeting. John Skelly was contacted and he agreed to contact committee members to develop an effects proposal.

Ellis Cowling informed the Technical Committee that Jim Gibson had withdrawn his application as a candidate for the position. Cowling mentioned that insufficient future funding was guaranteed at this time for Program Development Coordinator on a full time basis. Gibson indicated he would be amiable to a contractual agreement to serve as the coordinator on a part time basis until the long term funding picture was classified. Motion was made and unanimously approved that Ellis Cowling negotiate a contractual agreement with Gibson.

Special NC-141 t-shirts are available now. Please contact Gibson for purchase of these.

It is tentatively planned that the next Technical Committee Meeting of NC-141 will be held on November 16-17, 1978, at Urbana, Illinois.

Sagar Krupa - Secretary

#### MINUTES -SUBCOMMITTEE #1

Recommend to the Technical Committee that Subcommittee Chairman serve for one year, to be succeeded by the Vice Chairman. A new Vice Chairman will be elected at the "Annual Meeting" of the Technical Committee.

The "Site Selection and Certification" booklet has been found to have some ambiguities and errors. This Sub-committee will promptly correct and revise the document and submit it to the Coordinator for distribution.

All applications for Site Certification received to date have been reviewed (or will be by 6/15/78). All applications are "provisionally" certified class A, B, C or D by the Sub-committee Chairman, based primarily upon the submitted questionnaire and supporting documentation. Where necessary the Chairman will contact the applicant to clarify questions and may also call upon other Sub-committee expertise to examine suitability of specific technical requirements (e.g., pH meters, etc.).

Provisional Certification will be for a period of not less than one year. Final Site Certification will be issued after sufficient data have been analyzed as the final proof of acceptability.

It is recommended that Final Certifications be reviewed at periodic intervals to assure continued high quality operation. These reviews shall occur at intervals of not less than 3 years nor more than 5 years.

No formal site visit program was established. It is our view that for the most part, site visits will not be necessary except under unusual circumstances.

The "Field Observer Instruction Manual" was not completed in final review. Copies were distributed to all members of the Technical Committee with the request that comments and suggested changes be forwarded to Dick Semonin by June 20th. The final version of the Manual will be submitted to the Coordinator for printing and distribution by July 1, 1978.

Sub-committee #1 senses the need for interfacing with Sub-committee #2 and #3 in various areas of mutual interest and will endeavor to have such a meeting at the time of the Annual Meeting of the Technical Committee.

It is recommended that the Coordinator arrange for an official letter to each site with notification of Provisional Certification and subsequently for a "frameable" certificate upon granting of Final Certification.

H. L. Volchok - Vice Chairman

Colorado State University

No participant list is available for this meeting.